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SU ING DATE	RST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.  0020-4666P 1396
APPLICATION NO. FILLING EACH  09/492,803 01/28/2000  2292 7590 11/05/2002  BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747	Fumihiro Konushi  EXAMINER  LEUNG, QUYEN PHAN  ART UNIT PAPER NUMBER  2828

DATE MAILED: 11/05/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

				A. diamata	<del></del>	
4		Application	on No.	Applicant(s)	/	
	·	09/492,80	3	KONUSHI ET AL.		
	Office Action Summary	Examiner		Art Unit		
		Quyen P.	Leung	2828		
	- The MAILING DATE of this commun	ication appears on the	cover sheet with the	e correspondence address		
THE M - Extensions after S - If the III - If NO - Failure	DRTENED STATUTORY PERIOD F IAILING DATE OF THIS COMMUNI sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st e to reply within the set or extended period for reply pely received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evinunication. lo) days, a reply within the statestutory period will apply and we will, by statute, cause the apparter the mailing date of this co	ent, however, may a reply be utory minimum of thirty (30) ill expire SIX (6) MONTHS fi	e timely filed days will be considered timely. om the mailing date of this communical INED (35 U.S.C. § 133).	tion.	
1)🖂	Responsive to communication(s) fi					
2a)⊠	This action is FINAL.	2b) This action is				
3)□	Since this application is in condition closed in accordance with the praction of Claims	n for allowance excep ctice under <i>Ex parte</i> C	ot for formal matters Quayle, 1935 C.D. 1	, prosecution as to the merit 1, 453 O.G. 213.	IS IS	
4)⊠	Claim(s) 1-31 is/are pending in the	application.				
,	4a) Of the above claim(s) <u>6-8,16-21</u>	<u>,30 and 31</u> is/are with	drawn from conside	eration.		
Į	Claim(s) is/are allowed.					
1	Claim(s) <u>1-5,9-15 and 22-29</u> is/are	rejected.				
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restr	iction and/or election	requirement.			
Applicat	ion Papers					
9)	The specification is objected to by the	he Examiner.	7	Evaminer		
10)	The drawing(s) filed on is/are	e: a) accepted or b)	objected to by the	= Xallillol.		
	Applicant may not request that any o	bjection to the drawing(	s) be neid in abeyance	onroved by the Examiner		
11)	The proposed drawing correction fil			opiovod by the Examiner.		
	If approved, corrected drawings are i		omice action.			
	The oath or declaration is objected	to by the Examiner.				
Priority	under 35 U.S.C. §§ 119 and 120		do=251150 54	19(a)-(d) or (f)		
	Acknowledgment is made of a clai		ınder 35 U.S.C. § 1	13(a)-(u) 01 (1).		
a)	) All b) Some * c) None of					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
*	Copies of the certified copie     application from the Inte See the attached detailed Office ac-	ernational Bureau (PC tion for a list of the ce	rtified copies not red	ceived.		
14)	Acknowledgment is made of a claim	n for domestic priority	under 35 U.S.C. §	l 19(e) (to a provisional appl	ication).	
	a)	language provisional	application has bee	n received.		
Attachme						
2) 🗆 Not	cice of References Cited (PTO-892) cice of Draftsperson's Patent Drawing Review formation Disclosure Statement(s) (PTO-1449	v (PTO-948) o) Paper No(s)	4) Interview Sur 5) Notice of Info 6) Other:	nmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152	)	

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# **DETAILED ACTION**

#### Election/Restrictions

1. Claims 6-8, 16-21, 30-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method of making a laser, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 12.

# Response to Amendment

2. In response to the amendment filed 4/23/02, claims 1, 4, 6, 17, 19-21 have been amended and claims 23-31 added.

## Response to Arguments

3. Applicant's arguments with respect to claims 1-5, 9-15, 22-29 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 9-15, and 22-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsushita (JP 10-321942). Matsushita discloses the claimed invention. Note figure 1 which illustrates a QW active layer (16) between a pair of cladding layers (19, 14), an optical guide layer (17) and a spacer layer (18). Regarding the carrier concentration at the interface being between 5x106 and 5x1017 cm-3, it is noted that

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this is inherent for spacer layer is not intentionally doped to have a higher carrier

concentration.

**Conclusion** 

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (703) 308-0545. The examiner can normally be reached on 8:30-5:00, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Quyen P. Leung Primary Examiner Art Unit 2828

QPL November 4, 2002